



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of

JOEL B. SHUFELDT

Serial No. 10/805,156

Filed March 19, 2004

For VORTEX BLOWER HAVING  
HELMHOLTZ RESONATORS  
AND A BAFFLE ASSEMBLY

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)  
Debbie Tingler  
Debbie Tingler, Sec'y to Andrew B. Morton

**TRANSMITTAL SHEET**

Enclosed are the following documents:

Information Disclosure Statement (*w/attached Certificate of Mailing*)

Form PTO-1449  
*Fourteen (14) dkt*  
*Thirteen (13) Articles*

Return Receipt Postcard

**The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 18-0987. If a withdrawal is required from Deposit Account No. 18-0987, the undersigned attorney respectfully requests that the Commissioner of Patents and Trademarks cite Attorney Docket Number 4570.91 for billing purposes.**

Respectfully submitted,

Ray L. Weber, Reg. No. 26,519  
Andrew B. Morton, Reg. No. 37,400  
Renner, Kenner, Greive, Bobak,  
Taylor & Weber  
First National Tower, Fourth Floor  
Akron, Ohio 44308-1456  
Telephone: (330) 376-1242

Attorney Docket No: 4570.91



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In the application of

JOEL B. SHUFELDT

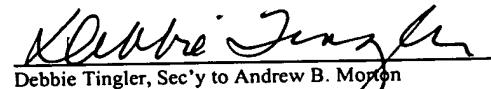
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Debbie Tingler, Sec'y to Andrew B. Morton

**INFORMATION DISCLOSURE STATEMENT**

**37 CFR §§1.97, 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.97, relating to the filing of an Information Disclosure Statement, the Applicant hereby submits the following in compliance with the duty of disclosure as set forth in 37 CFR §1.56.

Information or art known to the Applicant and having an extent of relevance to the present application has been listed on PTO Form 1449 attached hereto. It includes Eighty-One (81) United States patents and Thirteen (13) articles. The Applicant has employed PTO Form 1449 for the purposes of convenience of the Office and the Examiner.

No representation is made that the information is non-cumulative, or that the information represents the only or the best information. The Applicant does not admit that any of the information he has provided is necessarily prior to his invention but rather that it is information of which he is aware and that he believes should be provided to the Office in fulfillment of their duty of disclosure.

It should be evident that none of the art provided herein accomplishes the objects of the present invention. The Applicant believes that the claims of the subject application are patentably distinct over the art of record. In the event the Examiner would care to discuss any of the disclosed art more specifically, the undersigned attorney would welcome a telephone call.

Respectfully submitted,



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Andrew B. Morton, Reg. No. 37,400  
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Attorney Docket No: 4570.91



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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**(Use as many sheets as necessary)**

heet 1 of 7

**Complete if Known**

Application Number	10/805,156
Filing Date	03/19/2004
First Named Inventor	JOEL B. SHUFELDT
Art Unit	3745
Examiner Name	
Attorney Docket Number	4570.91

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (If known)			
		US- 353,994	12-07-1886	WALKER ET AL.	
		US- 1,502,903	07-29-1924	CAMPBELL	
		US- 1,868,008	07-19-1932	GARDNER	
		US- 1,893,184	01-03-1933	SMELLIE	
		US- 1,983,606	12-11-1934	GEISE	
		US- 2,097,205	10-26-1937	CARY ET AL.	
		US- 2,098,640	11-09-1937	CARY	
		US- 2,171,341	08-29-1939	MCMAHAN	
		US- 2,225,398	12-17-1940	HAMBLIN	
		US- 2,951,632	09-06-1960	HANSON	
		US- 3,006,603	10-31-1961	CARUSO ET AL.	
		US- 3,058,528	10-16-1962	HIERSCH	
		US- 3,398,866	08-27-1968	FLAME ET AL.	
		US- 3,844,674	10-29-1974	MORIYAMA	
		US- 3,849,024	11-19-1974	MASAI ET AL.	
		US- 3,899,266	08-12-1975	MASAI ET AL.	
		US- 3,942,906	03-09-1976	SCHONWALD	
		US- 3,951,567	04-20-1976	ROHS	
		US- 3,973,865	08-10-1976	MUGELE	

## **FOREIGN PATENT DOCUMENTS**

Examiner Signature		Date Considered	
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**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **<sup>1</sup>** Applicant's unique citation designation number (optional). **<sup>2</sup>** See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. **<sup>3</sup>** Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). **<sup>4</sup>** For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. **<sup>5</sup>** Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. **<sup>6</sup>** Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
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(Use as many sheets as necessary)

Sheet 2 of 7

Application Number	10/805,156
Filing Date	03/19/2004
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		Number-Kind Code <sup>2</sup> (if known)			
		US- 3,982,848	09-28-1976	SCHONWALD ET AL.	
		US- 4,006,998	02-08-1977	SCHONWALD	
		US- 4,141,674	02-27-1979	SCHONWALD	
		US- 4,172,678	10-30-1979	SCHONWALD ET AL.	
		US- 4,174,020	11-13-1979	CHALLIS	
		US- 4,194,798	03-25-1980	SCHONWALD ET AL.	
		US- 4,204,800	05-27-1980	BENTELE ET AL.	
		US- 4,204,802	05-27-1980	SCHONWALD ET AL.	
		US- 4,247,246	11-27-1981	ABE ET AL.	
		US- 4,253,800	03-03-1981	SEGAWA ET AL.	
		US- 4,321,008	03-23-1982	MCCOY	
		US- 4,325,672	04-20-1982	SIXSMITH ET AL.	
		US- 4,376,613	03-15-1983	SCHOENWALD	
		US- 4,412,781	11-01-1983	ABE ET AL.	
		US- 4,456,423	06-26-1984	MITTMANN	
		US- 4,483,656	11-20-1984	ABE ET AL.	
		US- 4,657,481	04-14-1987	MOWILL ET AL.	
		US- 4,749,338	06-07-1988	GALTZ	
		US- 4,932,833	06-12-1990	WIEJA ET AL.	

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner Signature \_\_\_\_\_ Date Considered \_\_\_\_\_

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Sheet 3 of 7

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Application Number	10/805,156
Filing Date	03/19/2004
First Named Inventor	JOEL B. SHUFELDT
Art Unit	3745
Examiner Name	
Attorney Docket Number	4570.91

U. S. PATENT DOCUMENTS

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 4,932,834	06-12-1990	GALTZ ET AL.	
		US- 4,944,310	07-31-1990	SULLIVAN	
		US- 4,992,021	02-12-1991	LANGEN ET AL.	
		US- 4,992,022	02-12-1991	AUST ET AL.	
		US- 5,000,660	03-19-1991	VAN HOUTEN ET AL.	
		US- 5,040,943	08-20-1991	DWYER ET AL.	
		US- 5,120,193	06-09-1992	KADLE ET AL.	
		US- 5,143,511	09-01-1992	VERNEAU ET AL.	
		US- 5,161,941	11-10-1992	RATNER	
		US- 5,244,352	09-14-1993	MUGELE	
		US- 5,281,083	01-25-1994	ITO ET AL.	
		US- 5,340,275	08-23-1994	EISINGER	
		US- 5,395,210	03-07-1995	YAMAZAKI ET AL.	
		US- 5,484,259	01-16-1996	AHMED ET AL.	
		US- 5,499,900	03-19-1996	KHMARA ET AL.	
		US- 5,527,148	06-18-1996	AUST ET AL.	
		US- 5,527,149	06-18-1996	MOSS ET AL.	
		US- 5,527,150	06-18-1996	WINDHOFER	
		US- 5,536,139	07-16-1996	YAMAZAKI ET AL.	

## **FOREIGN PATENT DOCUMENTS**

**Examiner Signature** \_\_\_\_\_ **Date Considered** \_\_\_\_\_  
\_\_\_\_\_  
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applicable, checkmark the applicable box.

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**TO:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
Telephone: (703) 355-7425; facsimile: (703) 355-7442; e-mail address: [PTO-9199@uspto.gov](mailto:PTO-9199@uspto.gov).  
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**Complete if Known****INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4 of 17

Application Number	10/805,156
Filing Date	03/19/2004
First Named Inventor	JOEL B. SHUFELDT
Art Unit	3745
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		US- 5,569,023	10-29-1996	ISHIDA ET AL.	
		US- 5,658,126	08-19-1997	WERNER ET AL.	
		US- 5,697,152	12-16-1997	YAMAZAKI ET AL.	
		US- 5,718,561	02-17-1998	FISCHER	
		US- 5,791,870	08-11-1998	ALEXANDER	
		US- 5,964,573	10-12-1999	FISCHER	
		US- 5,987,729	11-23-1999	MORAN	
		US- 6,019,571	01-01-2000	FISCHER	
		US- 6,039,532	03-21-2000	MCCONNELL	
		US- 6,142,728	11-07-2000	HUMBURG ET AL.	
		US- 6,146,092	11-14-2000	BOTROS ET AL.	
		US- 3,437,173	04-08-1969	EHRICH	
		US- 3,819,007	06-25-1974	WIRT ET AL.	
		US- 3,819,009	06-25-1974	MOTSINGER	
		US- 3,820,628	06-28-1974	HANSON	
		US- 4,001,473	01-04-1977	COOK	
		US- 4,100,993	07-18-1978	FEDER	
		US- 4,135,603	01-23-1979	DEAN, III ET AL.	
		US- 4,150,732	04-24-1979	HOCH ET AL.	

## FOREIGN PATENT DOCUMENTS

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Sheet 5 of 7

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Indicate if not in conformance and note

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**INFORMATION DISCLOSURE  
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Sheet

6

of

7

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Filing Date 03/19/2004

First Named Inventor JOEL B. SHUFELDT

Art Unit 3745

Examiner Name

Attorney Docket Number 4570.91

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A	LORI A. BRADY, "Application of the Herschel-Quincke Tube Concept to Higher-Order Acoustic Modes in Two-Dimensional Ducts", March 1, 2002,	
	B	G.M. DIEHL, "Think Quiet", Compressed Air, 1971, pp. 1-34	
	C	JOHAN LILJENCRANTS, "Working of Acoustic Resonators", Mechanical Music Digest, June 23, 2001, pp.1-2	
	D	LARRY HANSON, "Hybrid Circuit Technology", November, 1984, Lake Publishing Corp.	
	E	AHMET SELAMET, "New Tool Helps Automakers Silence Irritating Noise", <a href="http://researchnews.osu.edu/archive/whistle.htm">http://researchnews.osu.edu/archive/whistle.htm</a> , April 1, 2002	
	F	"Effectiveness of Adjacent Reactive Absorbers" , March 27, 2000; <a href="http://www.deicon.com/technote/adjacent_resonators_deicon.pdf">http://www.deicon.com/technote/adjacent_resonators_deicon.pdf</a>	
	G	Y.P. SOH, E.W.T. YAP and B.H.L. GAN, "Industrial Resonator Muffler Design", 2001; <a href="http://www.mecheng.adelaide.edu.au/courses/undergrad/projects/level4papers2001/soh_yap_gan.pdf">http://www.mecheng.adelaide.edu.au/courses/undergrad/projects/level4papers2001/soh_yap_gan.pdf</a>	
	H	J.W. MOONEY, "Helmholtz Resonator Sound Absorbers", April 2000; <a href="http://www.jwmooney.com/wcpub/page45.html">http://www.jwmooney.com/wcpub/page45.html</a>	
	I	"Helmholtz Resonance" 2000, Modified on 6/19/03 by Joe Wolfe BSc Qld, BA UNSW, PhD ANU. University of New South Wales Sydney, Australia, <a href="http://www.phys.unsw.edu.au/jw/Helmholtz.html">http://www.phys.unsw.edu.au/jw/Helmholtz.html</a>	
	J	Fuji Ring Compressors" Published in 1996 in the Fuji Blowers product catalog by Fuji Electric Company. Web page address for updated catalog: <a href="http://www.airpowerproducts.com/fuji/index.shtml#operation">http://www.airpowerproducts.com/fuji/index.shtml#operation</a>	

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		Application Number	10/805,156
		Filing Date	03/19/2004
		First Named Inventor	JOEL B. SHUFELDT
		Art Unit	3745
		Examiner Name	
Sheet	7	of	7
		Attorney Docket Number	4570.91

<b>NON PATENT LITERATURE DOCUMENTS</b>				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	K	"Noise Control, Sound Behavior", November 1991,National Occupational Health and Safety Commission (NOHSC) Australian Government, <a href="http://www.nohsc.gov.au/OUSInformation/OHSSolutions/noise/SOUNDA.HTM">http://www.nohsc.gov.au/OUSInformation/OHSSolutions/noise/SOUNDA.HTM</a>		
	L	"Sound Cell" , 2002 Proudfoot Company website catalog, <a href="http://www.soundblox.com/scell.htm">http://www.soundblox.com/scell.htm</a>		
	M	JOHN S. LAMANCUSA, "Fan Noise Prediction" 7/12/200, "Fan Noise", <a href="http://www.me.psu.edu/lamancusa/me458/11_fan.pdf">http://www.me.psu.edu/lamancusa/me458/11_fan.pdf</a>		
	N	THOMAS B. GREENSDALE JR., "Helmholtz Resonator", 1966; <a href="http://physics.kenyon.edu/EarlyApparatus/Rudolf_Koenig_Apparatus/Helmholtz_Resonator">http://physics.kenyon.edu/EarlyApparatus/Rudolf_Koenig_Apparatus/Helmholtz_Resonator</a>		
	F			

Examiner Signature		Date Considered	
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